

CERTIFICATE OF ACCREDITATION



RJ Hill Laboratories Ltd (Hill Labs)
Hamilton

Client Number 590

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Authorised Representative
Ms Leisle Jacobsen
Quality Manager/Lead Auditor

Programme
Drinking Water Testing Laboratory

Accreditation Number 798

Initial Accreditation Date 15 January 2002

Conformance Standard

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories
Water Services (Drinking Water Standards for New Zealand) Regulations 2022

Laboratory Services Summary

Analysis

1.12 Waters (Microbiology)
2.41 Waters (Chemistry)

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Analysis

The following scope of accreditation provides for the testing of potable waters for the purposes of assessing compliance with the Water Services (Drinking Water Standards for New Zealand) Regulations 2022, the Aesthetics Values for Drinking Water Notice 2022 in accordance with the Taumata Arowai publications Requirements Relating to Laboratories 2021 and the Drinking Water Quality Assurance Rules 2022.

1.12 Waters (Microbiology)

(a) Potable waters

In accordance with APHA “Standard Methods for the Examination of Water and Wastewater” (Online Edition) except where otherwise indicated.

Determinand	Method Reference
<i>E. coli</i> – Colilert Quantitray (51 well)	9223 B
<i>E. coli</i> – Colilert Quantitray (97 well)	9223 B
<i>E. coli</i> – Colilert-18 Quantitray (51 well)	9223 B
<i>E. coli</i> – Colilert-18 Quantitray (97 well)	9223 B
<i>E. coli</i> – MPN	9221 F
<i>E. coli</i> – MF	9221 I
<i>E. coli</i> – MF	9221 I (modified)
<i>E. coli</i> – MF	ISO 9308 -1 (2014) / Amd 2016
Total coliforms – Colilert Quantitray (51 well)	9223 B
Total coliforms – Colilert Quantitray (97 well)	9223 B
Total coliforms – Colilert-18 Quantitray (51 well)	9223 B
Total coliforms – Colilert-18 Quantitray (97 well)	9223 B
Total coliforms – MPN	9221 B
Total coliforms – MF	ISO 9308-1 (2014) / Amd 2016

2.41 Waters (Chemistry)

(a) Potable waters

INORGANIC DETERMINANDS

In accordance with APHA “Standard Methods for the Examination of Water and Wastewater” (Online Edition) except where otherwise indicated.

Determinand	Method Reference
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Aluminium	3125
Antimony	3125
Arsenic	3125
Barium	3125
Boron	3125
Bromate	USEPA 300.1 (modified)
Cadmium	3125
Chlorate	USEPA 300.1 (modified)
Chlorine	4500-CI G
Chlorite	USEPA 300.1 (modified)
Chromium	3125
Copper	3125
Cyanide (total)	4500-CN C (modified)
Cyanide (total)	4500-CN E (modified)
Cyanide (total)	ISO 14403: 2012(e)
Cyanide (WAD)	4500-CN O (modified)
Fluoride	4110 B (modified)
Fluoride	4500-F C
Lead	3125
Manganese	3125
Mercury	USEPA 245.7
Monochloramine	4500-CI G
Nickel	USEPA 200.8
Nitrate (as NO3)	4500- NO3 I (modified)
Nitrate (as NO3)	4110 B (modified)
Nitrate (as N)	4500-NO3 I (modified)
Nitrate (as N)	4110 B (modified)
Nitrite (as N)	4110 B (modified)
Nitrite (as NO2)	4110 B (modified)
Selenium	3125
Uranium	3125

ORGANIC DETERMINANDS

In accordance with methods indicated below. In-house methods are In-house based on USEPA:

Determinand	Method Reference
1,2-Dibromoethane	In-house
1,2-Dichlorobenzene	In-house
1,2-Dichloroethane	In-house
1,2-Dichloroethene (cis/trans)	In-house
1,2-Dichloropropane	In-house
1,3-Dichloropropene	In-house
1,4-Dichlorobenzene	In-house
2,4,5-T	In-house

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2,4,6-Trichlorophenol	USEPA 8270
2,4-D	In-house
2,4-DB	In-house
Acrylamide	In-house
Alachlor	In-house
Aldicarb	In-house
Aldrin/Dieldrin	USEPA 8081
Aldrin/Dieldrin	In-house
Aldrin/Dieldrin	In-house
Atrazine	In-house
Azinphos-methyl	In-house
Benzene	In-house
Benzo(a)pyrene	USEPA 8270
Benzo(a)pyrene	In-house
Bromacil	In-house
Bromodichloromethane	In-house
Bromoform	In-house
Carbofuran	In-house
Carbon tetrachloride	In-house
Chlordane	USEPA 8081
Chlordane	In-house
Chlordane	In-house
Chloroform	In-house
Chlorotoluron	In-house
Chlorpyrifos	In-house
Cyanazine	In-house
DDT and isomers	USEPA 8081
DDT and isomers	In-house
DDT and isomers	In-house
Di(2-ethylhexyl)phthalate	USEPA 8270
Dibromoacetonitrile	USEPA 551.1
Dibromochloromethane	In-house
Dichloroacetic acid	USEPA 552.3
Dichloroacetonitrile	USEPA 551.1
Dichloromethane	In-house
Dichloroprop	In-house
Dimethoate	In-house
Diuron	In-house
EDTA	In-house
Endrin	USEPA 8081
Endrin	In-house
Endrin	In-house
Ethylbenzene	In-house
Fenoprop	In-house
Hexachlorobutadiene	In-house
Hexazinone	In-house
Isoproturon	In-house

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Lindane	USEPA 8081
Lindane	In-house
Lindane	In-house
MCPA	In-house
Mecoprop	In-house
Metalaxyl	In-house
Methoxychlor	USEPA 8081
Methoxychlor	In-house
Methoxychlor	In-house
Metolachlor	In-house
Metribuzin	In-house
Molinate	In-house
Monochloroacetic acid	USEPA 552.3
Oryzalin	In-house
Oxadiazon	In-house
Pendimethalin	In-house
Pentachlorophenol	In-house
Perfluorohexane sulfonate (PFHxS) + Perfluorooctane sulfonate (PFOS)	ASTM D8421-24 (modified)
Perfluorooctanoic acid (PFOA)	ASTM D8421-24 (modified)
Picloram	In-house
Pirimiphos methyl	In-house
Primisulfuron methyl	In-house
Procymidone	In-house
Propazine	In-house
Pyriproxifen	In-house
Simazine	In-house
Styrene	In-house
Terbacil	In-house
Terbutylazine	In-house
Tetrachloroethene	In-house
Thiabendazole	In-house
Toluene	In-house
Trichloroacetic acid	USEPA 552
Trichloroethene	In-house
Triclopyr	In-house
Trifluralin	In-house
Trihalomethanes	In-house
Trihalomethanes	USEPA 840 (calc.)
Vinyl chloride	In-house
Xylenes	In-house

AESTHETIC DETERMINANDS

In accordance with APHA “Standard Methods for the Examination of Water and Wastewater” (Online Edition) except where otherwise indicated.

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Determinand

Method Reference

Colour
pH
Turbidity

2120 C (modified)
4500-H B (modified)
2130 B (modified)

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